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(56) Documents cited by ISA

GB A 1288438

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(54) Polyacrylamide gel for medi-
cal and biological application and
method of its preparation

(57) A polyacrylamide gel for medi-
cal and biological application con-
tains polyacrylamide and physiolog-
ical solution with the following ratio
of components (in % by weight):

polyacrylamide	3.0-28.0
physiological solution	72.0-97.0

The method of preparation of the
said polyacrylamide gel comprises
polymerization of acrylamide to-
gether with methylene-bis-acrylam-
ide and elution of the final product,
both polymerization and elution be-

ing carried out in the medium of
the physiological solution. The poly-
acrylamide gel can be used as a
base of nutrient mediums for grow-
ing microorganisms, artificial crys-
talline lenses and elastic contact
lenses.

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